STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.:	MO-0055280
Owner:	City of Stockton
Owner's Address:	PO Box 590, Stockton, MO 65785
Continuing Authority:	Same as above
Continuing Authority's Address:	Same as above
Facility Name:	Stockton Wastewater Treatment Facility
Facility Address:	Leo Hopkins Drive, Stockton, MO 65785
Legal Description:	W ½, NW ¼, Sec. 9, T34N, R26W, Cedar County
Latitude/Longitude:	+3742245/-09347176
Receiving Stream:	Stockton Branch (C)
First Classified Stream & ID:	Stockton Branch (C) (01361) 303(d) list
USGS Basin & Sub-watershed No.:	(10290106-130002)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 – 92-500 - SIC #4952
Five cell lagoon/rock filters/sludge is retained in lagoon.
Design population equivalent is 2,600.
Design flow is 0.260 MGD.
Actual flow is 0.220 MGD.
Design sludge production is 39 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

March 22, 2002
Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

March 21, 2007
Expiration Date

Interim Director of Staff, Clean Water Commission

MO 780-0041 (10-93)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001						
Flow	MGD	*		*	once/month	grab
Biochemical Oxygen Demand$_5$**	mg/L		45	30	once/month	grab
Total Suspended Solids**	mg/L		80	60	once/month	grab
pH – Units	SU	***		***	once/month	grab
Phosphorus as P	mg/L	*		*	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE May 28, 2002. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, II & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.
** This facility is required to meet a removal efficiency of 65% or more.
*** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
      (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
      (2) controls any pollutant not limited in the permit.
   (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
   (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

   The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

C. SPECIAL CONDITIONS (continued)

4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:
(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    (1) One hundred micrograms per liter (100 µg/L);
    (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    (4) The level established in Part A of the permit by the Director.
(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

5. Report as no-discharge when a discharge does not occur during the report period.

6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
(a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
(b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
(c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
(d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
(e) There shall be no significant human health hazard from incidental contact with the water;
(f) There shall be no acute toxicity to livestock or wildlife watering;
(g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
(h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
(a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
(b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids that are removed from the domestic wastewater treatment lagoon during lagoon clean-out and maintenance activities. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

D. SCHEDULE OF COMPLIANCE

1. By April 30, 2003, permittee shall submit a closure plan for cell #4 and cell #5.

2. By July 31, 2003, the proposed changes to the city's Wastewater Treatment Facilities must meet permit limitations. If Total Suspended Solids parameters are not met within this time frame, then the city must consider completely covering cell #3 with a permanent cover or other measures to meet permitted limits.

WATER QUALITY REVIEW SHEET

FACILITY: Stockton Lagoon

NPDES#: MO-0055280

CURRENT FACILITY TYPE: 5-cell lagoon, rock filter

EFFLUENT FLOW: design flow 0.338 MGD; actual flow 0.22 MGD

RECEIVING STREAM: Stockton Branch

RECEIVING STREAM CLASSIFICATION AND USES: Class C
(intermittent flow, permanent pools) aquatic-life protection, livestock, wildlife watering

RECEIVING STREAM LOW FLOW: "0"

The Stockton lagoon is on the current 303(d) list due to two miles of stream excessively affected by suspended algae, deposited algae solids, duckweed, and odor. Current limits are "30/60"-mg/L for BOD and TSS; these limits are considered acceptable if they can be met – the TSS limits are sometimes exceeded due to suspended algae. A 1999 DNR survey identified 1.5 miles of polluted stream due to the effluent, confirming earlier observations of impacts. Current plans are to abandon cells #1, 4, and 5, partially aerate cell #2, and partially cover cell #3 with a synthetic cover to reduce suspended algae. Reaeration should assure that the minimum dissolved oxygen in the effluent is 5 mg/L. Another physical/chemical and visual stream survey should be conducted after completion of the lagoon improvements.

SUMMARY OF LIMITS:
BOD –- 30 mg/L (monthly average) (per 10 CSR 20-7.015)
TSS –- 60 mg/L (monthly average) (per 10 CSR 20-7.015)
Dissolved oxygen – 5 mg/L minimum

REVIEWER: RG DATE: 7-1-99, updated 1-27-2000 SECTION CHIEF: JM